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PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031

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		Application Number		10/709,498
TRANSMITTAL	<u>.</u>	Filing Date		May 10, 2004
FORM		First Named Invento	or	Heng-Chia CHANG
JAN 0 3 200 OCT		Art Unit		3662
(to be used for all correspondence after	initial filina)	Examiner Name		Not yet assigned.
Total Number of Pages in This Submiss		Attorney Docket Nur	mber	62348.00003
QE WAR	ENCLO	SURES (check all that	apply)	
Fee Transmittal Form w/ duplicate [Total 2 pages]	☐ Drawing(s	s)		After Allowance Communication to TC
Fee Attached		-related Papers		Appeal Communication to Board of Appeals and Interferences
Amendment / Reply	Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final		Convert to a al Application	·	Proprietary Information
Affidavits/declaration(s)	_	Attorney, Revocation of Correspondence Addre	ess	Status Letter
Extension of Time Request	Terminal	Disclaimer		Other Enclosure(s) (please identify below):
Express Abandonment Request	Request f	for Refund		Postcard
	CD, Numl	ber of CD(s)		•
Information Disclosure Statement pursuant to 37 C.F.R. §1.97(b) [Total 2 pages]	☐ Lan	ndscape Table on CD		
PTO/SB/08a IDS by Applicant with copy of references 5 & 6.	Remarks		•	_
[Total 8 pages]	L	ADDLICANT ATTORI	MEV OF	ACENT
•	T	APPLICANT, ATTORI ders & Dempsey L.L.F		AULITI
Firm		Way, Palo Alto, CA)43
Signature			<i>Y</i> .	
, Printed Name	nger	V		
Date	December 2	28, 2004	Reg. No.	45,299
	CERTIFICA	TE OF TRANSMISSI	ON/MAIL	ING
	class mail in an	envelope addressed to:		or deposited with the United States Postal AMENDMENT, Commissioner for Patents,
Signature	1.9. 16	Merica		
Typed or printed name Cathi L.C	6. Thoorsell			Date December 28, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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TO A NOBALTTAL			
THE TRANSMITTAL	Application Number	10/709,498	
★or FY 2005	Filing Date	December 28, 2004	_
JAN A 2 2000 8	First Named Inventor	Heng-Chia CHANG	
JAN Effectiv 2005/01/2004. Patent fees are subject to annual revision.	Examiner Name	Not yet assigned.	
Applicant of ms small entity status. See 37 CFR 1.27	Art Unit	3662	
TOTAL (\$) 0	Attorney Docket No.	10/709,498	
METHOD OF PAYMENT (chack all that apply)		FEE CALCULATION (continued)	

METI	HOD OF PAYMENT (check all that apply)				FFI	E CALCULATION (continued)
		3. AD	DITION	IAL FE		L OALOOLATION (COMMITTEE)
☐ Check ☐ Cr	edit card		F-44.	C!! 5	4!4	
☑ Deposit Accour		Large	Entity	Small E	ntity	
		Fee Code	Fee (\$)	Fee Code	Fce (\$)	Fee Description Fee Paid
Deposit Account	05-0150	1051	130	2051	65	Surcharge - late filing fee or oath
Number		1052	50	2052	25	Surcharge - late provisional filing fee or cover
Deposit						sheet.
Account	Squire, Sanders & Dempsey L.L.P.	1053	130	1053	130	Non-English specification
Name		1812	2,520	1812	2,520	For filing a request for ex parte reexamination
	thorized to: (check all that apply)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action
	dicated below	1805	1,840*	1805	1,840*	Requesting publication of SIR after
	dicated below, except for the filing fee			,,,,,	.,	Examiner action
to the above-identif	ied deposit account.	1251	110	2251	55	Extension for reply within first month
	FEE CALCULATION	1252	430	2252	215	Extension for reply within second month
1. BASIC,FII	LING FEE	1253	980	2253	490	Extension for reply within third month
Large Entity S	mall Entity	1254	1,530	2254	765	Extension for reply within fourth month
Fee Fee Fe Code (\$) Ce	ee Fee <u>Fee Description</u> ode (\$)	1255	2,080	2255	1,040	Extension for reply within fifth month
	001 395 Utility filing fee	1401	340	2401	170	Notice of Appeal
	002 175 Design filing fee	1402	340	2402	170	Filing a brief in support of an appeal
1003 550 20	003 275 Plant filing fee	1403	300	2403	150	Request for oral hearing
1004 790 20	004 395 Reissue filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding
1005 160 20	005 80 Provisional filling fee	1452	110	2452	55	Petition to revive – unavoidable
•	SUBTOTAL (1) (\$) 0	1453	1,370	2453	685	Petition to revive – unintentional
	(4) (1)	1501	1,370	2501	685	Utility issue fee (or reissue)
2. EXTRA CLAI	M FEES FOR UTILITY AND REISSUE	1502	490	2502	245	Design issue fee
	. Fee from Extra Claims below Fee Paid	1503	660	2503	330	Plant issue fee
Total Claims	- ** = 0 X = 0	1460	130	1460	130	Petitions to the Commissioner
Independent		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)
Claims	- ** = 0 X = 0	1806	180	1806	180	Submission of Information Disclosure Stmt
Multiple Dependent	X = 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)
Large Entity	Small Entity	1809	790	2809	395	Filing a submission after final rejection
Fee Fee	Fee Fee Description	4045	700	8845	005	(37 CFR § 1.129(a))
Code (\$) 1202 18	Code (\$) 2202 9 Claims in excess of 20	1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))
1201 88	2201 44 Independent claims in excess of 3					EXAMINED (OF OFFIX 1.129(D))
1203 300	2203 150 Multiple dependent claim, if not paid	1801	790	2801	395	Request for Continued Examination (RCE)
1204 88	2204 44 ** Reissue independent claims over original patent	1802	900	1802	900	Request for expedited examination
1205 18	2205 9 ** Reissue claims in excess of 20 and		1			of a design application
	over original patent	Other fe	ee (speci	fy)	-	
	SUBTOTAL (2) (\$) 0	*Reduc	ced by Ba	asic Filing	g Fee Pa	aid
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**or number previous!	y paid, if greater, For Reissues, s	ee above				SUBTOTAL (3)	(\$) 0	
SUBMITTED BY					C	complete <i>(if applica</i>	ble)	
Name (Print/Type)	Aaron Wininger	Registration N	o. (Attorney/Agent)	45,229	Telephone	(650) 856	-6500	
Signature			,		Date	Decembe	r 28, 2004	

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Attorney Docket No.: 62348.00003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Heng-Chia CHANG Examiner: Not yet assigned.

Serial No.: 10/709,498 Art Unit: 3662

Filed: May 10, 2004

Title: UWB PULSE GENERATOR AND UWB PULSE

GENERATION METHOD

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. §§1.97(b)

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the references listed on the enclosed Form PTO-1449. One copy of each non-patent literature document cited reference is submitted herewith. Pursuant to the PTO's waiver of the requirements under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent/patent application for new applications filed after June 30, 2003, we are not submitting copies of the U.S. patents cited.

The present Information Disclosure Statement is being filed more than three months after the filing date but before receiving the first Office Action. Accordingly, no fee or certification is needed.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Furthermore, Applicant does not waive any right to take any action that would be appropriate to antedate or

Attorney Docket No.: 62348.00003

otherwise remove any listed document as a competent reference against the claims of the present application. The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

If for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. <u>05-0150</u>.

Date: 12/28/04

Respectfully submitted,

Squire, Sanders & Dempsey LLP 600 Hansen Way

Palo Alto, CA 94304-1043

Tel: (650) 856-6500 Fax: (650) 843-8777 By ______ Aaron Wininger

Attorney for Applicant(s) Registration No.: 45,229

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

Date: Dec. 28, 2004

By: <u>A+h L. J.</u>
Cathi L.G. Thoorsell

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute to Ban E449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

	Complete if Known			
Application Number	10/709,498			
Filing Date	May 10, 2004			
First Named Inventor	Heng-Chia CHANG			
Art Unit	3662			
Examiner Name	Not yet assigned.			
Attorney Docket Number	62348.00003			

	U.S. PATENT DOCUMENTS							
Examiner Cite		Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan			
Initials *	No. ¹	Number - Kind Code ² (if known)	MM-DD-YYYY	Orted Document	Passages or Relevant Figures Appear			
·	1	US- 4, 813,057	03-14-1989	Larry W. FULLERTON				
·	2	US- 4,641,317	02-03-1987	Larry W. FULLERTON				
	3	US- 4,979,186	12-18-1990	Larry W. FULLERTON				
	4	US-5,363,108	11-08-1994	Larry W. FULLERTON				
	+	03-3,303,106	11-00-1774	Larry W. POLLEKTON				

		FOREIGN PA	TENT DOCU	MENTS		
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T ⁶
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Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Substitu	ute for form 1449	В/РТО		Complete if Known			
				Application Number	10/709,498		
INFORMATION DISCLOSURE		Filing Date	May 10, 2004				
STA	STATEMENT BY APPLICANT		First Named Inventor	Heng-Chia CHANG			
				Art Unit	3662		
	(Use as mai	ny sheets as	necessary)	Examiner Name	Not yet assigned.		
Sheet	2	of	2	Attorney Docket Number	62348.00003		

		NON PATENT LITERATURE DOCUMENTS	· · · · ·
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	5	HAN, J., et al., "A New Ultra-Wideband, Ultra-Short Monocycle Pulse Generator with Reduced Ringing," <u>IEEE Microwave and Wireless Components Letters</u> , June 2002, Vol. 12, Issue 6, pp. 206-208.	
	6	LEE, J.S. et al., "Novel Low-Cost Ultra-Wideband, Ultra-Short-Pulse Transmitter with MESFET Impulse-Shaping Circuitry For Reduced Distortion and Improved Pulse Repetition Rate," IEEE Microwave and Wireless Components Letters, Vol. 11, Issue 5, pp. 208-210, May 2001.	
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Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.